

Date: Sat, 4 Dec 93 04:30:31 PST
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V93 #122
To: Ham-Homebrew

Ham-Homebrew Digest Sat, 4 Dec 93 Volume 93 : Issue 122

Today's Topics:

MiniSport Laptop Hacker - Vol 17
 sw-radio coils...question.
 Trunk 900Mhz > ham bands???

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 29 Nov 93 03:41:28 GMT
From: ucsnews!sol.ctr.columbia.edu!spool.mu.edu!olivea!isc-br!tau-ceti!comtch!
opus-ovh!bmork@network.ucsd.edu
Subject: MiniSport Laptop Hacker - Vol 17
To: ham-homebrew@ucsd.edu

MiniSport Laptop Hacker - Vol 17, Nov 1993
Copyright (c) 1993 Brian Mork -- "not to make money, but to keep it that
way for others, too."

>>> ADMIN

Remember, you can get copies on disk of any software or text files (in-
cluding the MLHacker series) I refer to by sending me a disk and SASE.
I'll put a variety of other MLHacker related goodies on there, too.
Alternately, contact me using the information in the signature block.
Please, contribute!

MLHacker is available on the KA6ETB Internet HAM-Server. Send a message
to ham-server@grafex.cupertino.ca.us with the single line of text: HELP
to get access information. Check the \hamradio\newsletters directory.


```

) G923          ===      ===
( P12           |         |
) xformer       /         /
(
    A3      bobbin
.-----|<-----~----- Pin8 (-10v)
(        |         + |         |
) G923    ===      ===      ===
( P12     | 47   - | 3.3      LB |
) xformer /       /         /
(
                                     .-- Pin11,13,14
                                     |
                                     | (GND)
                                     /

608C04
.---.      bobbin
| |-----~----- Pin15,16 (+5v)
.---.      |         |         |
            |         |         |
1000|      | 0.1      100 | \- \
=== ==      |         ^
|           |         | 6.8v
|           |         | Znr
.---.      /         /
|
/
                                edge |14
MB3778 |----- Pin 9 (from computer)
(_stby)|
MIDL ----- center |
+5v(pin4) / 10k MB3778 |14
|         \      (_stby)|----- Pin 12 (from computer)
|         /
1 /      |         4.7K
0 \      |         .-/\/\---.
0 /      / variable |         | "-B"
K \ --\--> resistor |         | -...|<- Pin 10 (6.6v when working)
|         /
|         |         10K | < BV3
----->|-----<\ /----/\//\-----| PNP
glass |         |         |
diode |         |         |
from |LB /51K | CBZ2
Pin4 === \      | NPN
circuitry | /      |
|         |         |
.---.      |

```

/

MIDL is identified in MLH Vol 14 -- in essence, it is +9v power, delivered through a diode.

LP stands for "Little Beige capacitor." I'm guessing they're 0.01uf bypass capacitors. They have no markings.

In order to progress further, I need to know the identification of a few parts:

"24" - 3pin rectangular SMC, 1/16" x 1/8"

"14" - 3pin rectangular SMC, 1/16" x 1/8"

"BV3" - 3pin rectangular SMC, 1/16" x 1/8"

"CBZ2" - 4tab SMC, looks like fixed volt reg (3 + tab)

Please provide feedback: * BBS 1-509-244-9260

* AX.25 KA9SNF@wb7nnf.#spokn.wa.usa

73, Brian

* Internet bmark@opus-ovh.spk.wa.us

Brian Mork Internet bmark@opus-ovh.spk.wa.us

. . . . Amateur Radio (AX.25) ka9snf@wb7nnf.#spokn.wa.usa

... . . . USMail 6006-B Eaker, Fairchild, WA 99011

Date: Thu, 2 Dec 93 14:34:00 GMT

From: mnemosyne.cs.du.edu!nyx10!lkollar@uunet.uu.net

Subject: sw-radio coils...question.

To: ham-homebrew@ucsd.edu

A partially-related question -- does Amidon, or any reseller, sell a pre-packaged assortment of the most commonly-used toroids? All these different types are CONFUSING to the homebrewer wanna-be -- and from what I've read here, you can't count on color-coding to keep them straight....

It seems the hardest part of homebrewing these days is figuring out which parts you need then finding them. There's a business opportunity for those who know what they're doing -- it costs more than \$5 to start, but you won't go to jail either. :-)

P.S. Nobody answered my question about using a magnetron from a microwave oven in osc/amp circuits. I'm not asking you to do all the work for me, but pointers to available articles would be appreciated.

Thinking about winding my coils on Quaker Oats canisters (just like

Grandpa used to!), I am --

--

Larry Kollar, KC4WZK | I like CW, but that doesn't mean I think every ham
lkollar@nyx.cs.du.edu | should have to learn it.

"On the Internet, nobody knows you're a dog."

Date: 3 Dec 93 22:22:50 GMT

From: ogicse!uwm.edu!spool.mu.edu!howland.reston.ans.net!vixen.cso.uiuc.edu!
ehsn2.cen.uiuc.edu!ah6542@network.ucsd.edu

Subject: Trunk 900Mhz > ham bands???

To: ham-homebrew@ucsd.edu

Hello everyone,

I had a little question,
has anyone ever tuned-down a trunked radio
(business bands up in 900MHz) to the ham bands??
A friend of mine recently recieved an old one
that had a bad battery pack (but they didn't realize).
It is an old Motorola that is very nice on the inside,
it is very modular etc. -along w/ dials and things to
change stuff w/.

Ever hear of this being done???

TNX! et 73's

Allen Hall n9rzc@uiuc.edu

ps- e-mail appreciated (can't always get to the posts)

Date: 3 Dec 93 14:42:30 GMT

From: ogicse!emory!kd4nc!ke4zv!gary@network.ucsd.edu

To: ham-homebrew@ucsd.edu

References <CH84qA.3w2@Dunx1.0CS.Drexel.Edu>, <2dj0ou\$19t@hpuerca.atl.hp.com>,
<1993Dec2.143400.16392@mnemosyne.cs.du.edu>

Reply-To : gary@ke4zv.atl.ga.us (Gary Coffman)

Subject : Re: sw-radio coils...question.

In article <1993Dec2.143400.16392@mnemosyne.cs.du.edu> lkollar@nyx10.cs.du.edu
(Larry Kollar) writes:

>

>P.S. Nobody answered my question about using a magnetron from a micro-

> wave oven in osc/amp circuits. I'm not asking you to do all the

> work for me, but pointers to available articles would be appreciated.

There was an article in 73 Magazine a year or so back about a fellow who was injection locking a microwave oven magnetron to act as a high power FM FSTV transmitter. Like an automotive battery charger, the PS in microwave ovens is deceptively simple. The transformer is made intentionally lossy, and operated near saturation, in order to provide protection for the tube in case of flashover or poor cavity SWR due to things like using metal in the oven. It's also only halfwave rectified and poorly, if at all, filtered. You have to build a fairly sophisticated HV supply if you want clean signals while protecting the tube from transient overcurrent. That's the toughest part of using magnetrons.

Gary

--

Gary Coffman KE4ZV	Where my job's going,	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	I don't know. It might	uunet!rsiatl!ke4zv!gary
534 Shannon Way	wind up in Mexico.	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-NAFTA Blues	

End of Ham-Homebrew Digest V93 #122

